

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P457692

Luminaire Tested: **GALN-SA9A-740-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42251 lumens
Efficiency: N/A
Efficacy: 154.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

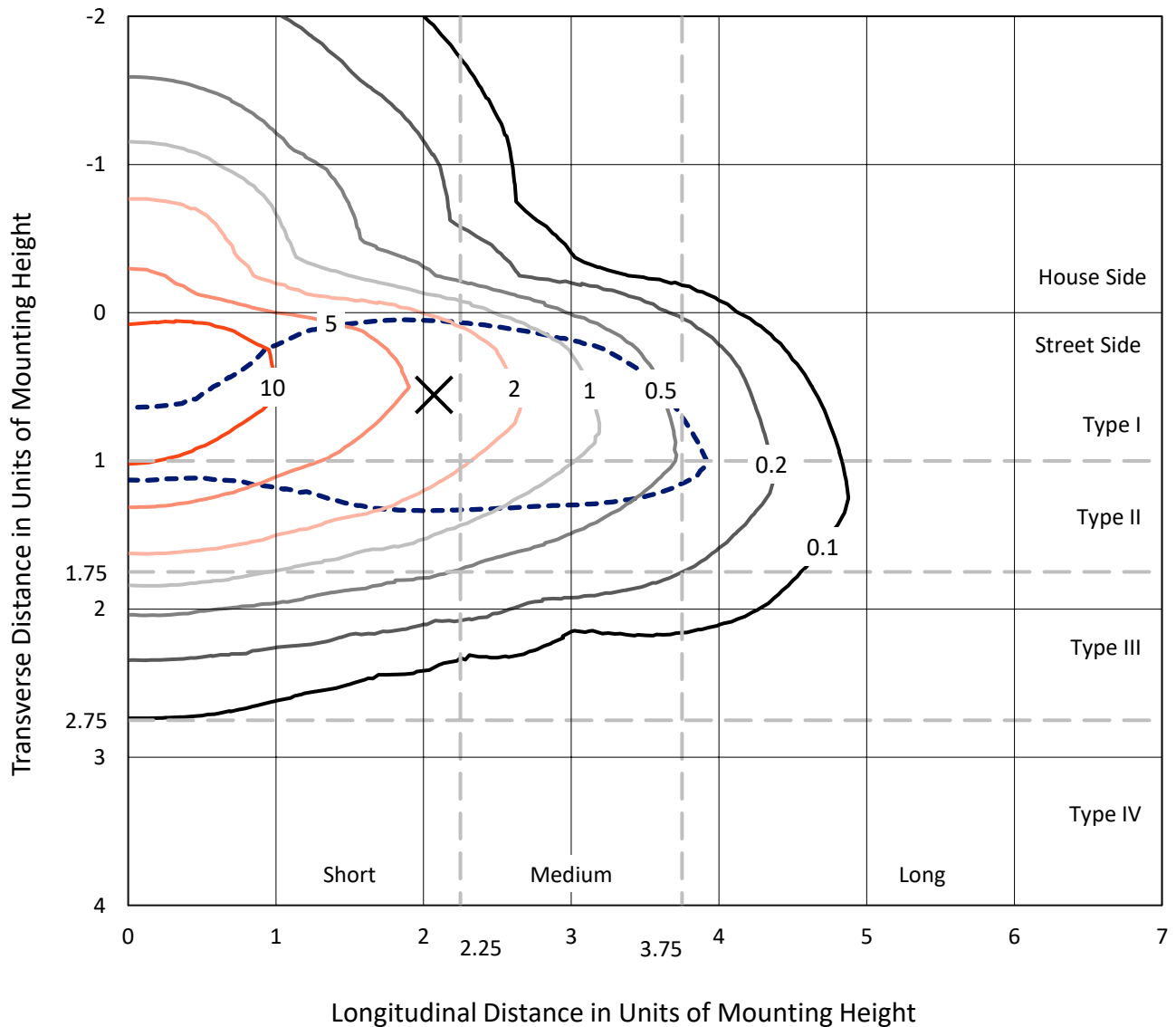
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

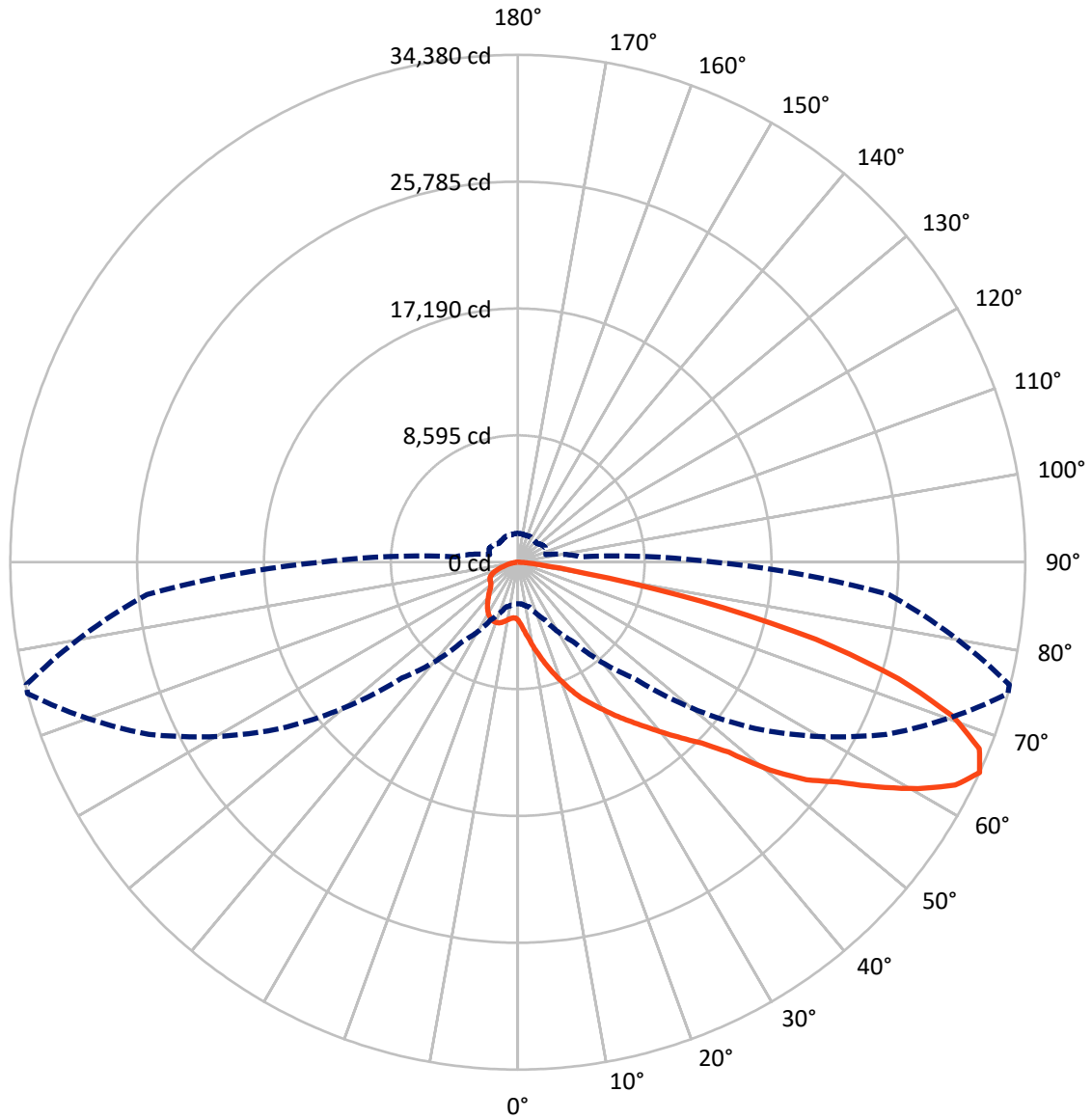
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7102.9	0.0	7102.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	35148.1	0.0	35148.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	42251.0	0.0	42251.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.0	1.1
10°-20°	1868.2	4.4
20°-30°	3608.7	8.5
30°-40°	5861.6	13.9
40°-50°	8063.1	19.1
50°-60°	9519.8	22.5
60°-70°	8340.9	19.7
70°-80°	3982.0	9.4
80°-90°	529.9	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	42251.0	100.0
0°-180°	42251.0	100.0



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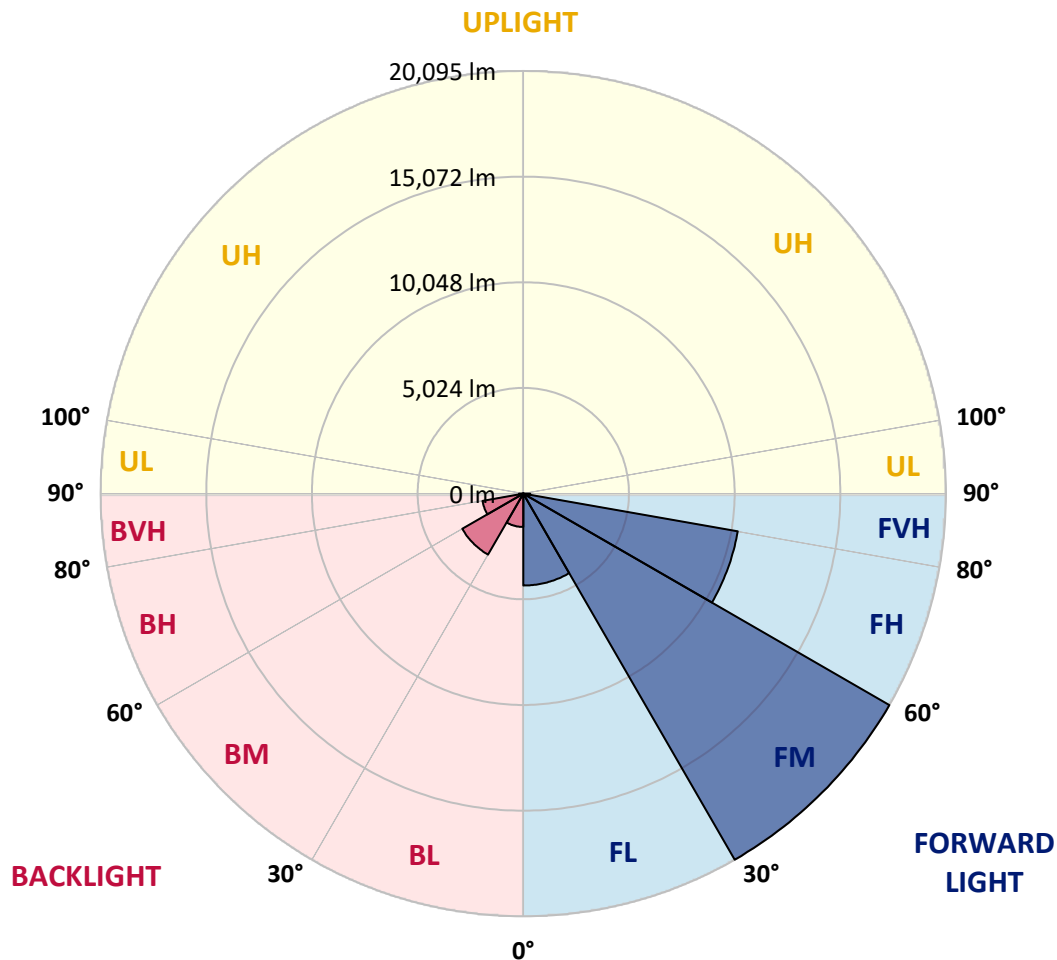
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4368.1	10.3			
FM	(30°-60°)	20095.5	47.6			
FH	(60°-80°)	10353.4	24.5			G4/12000
FVH	(80°-90°)	331.1	0.8			G3/500
BL	(0°-30°)	1585.7	3.8	B3/2500		
BM	(30°-60°)	3349.0	7.9	B3/5000		
BH	(60°-80°)	1969.5	4.7	B3/2500		G3/2500
BVH	(80°-90°)	198.7	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3925.7	3925.7	3925.7	3925.7	3925.7	3925.7	3925.7	3925.7	3925.7	3925.7	3925.7
2.5°	5215.9	5181.5	5144.8	5044.0	4936.3	4814.8	4640.7	4473.4	4251.1	4244.2	4079.2
5°	6661.9	6639.0	6476.3	6382.3	6132.5	5800.2	5518.4	5080.7	4675.0	4626.9	4306.1
7.5°	7991.1	7901.7	7839.8	7670.3	7422.8	6996.5	6451.1	5859.8	5181.5	5117.3	4585.7
10°	8992.6	8983.4	8951.3	8804.6	8619.0	8195.1	7590.1	6742.1	5823.2	5697.1	4924.8
12.5°	9741.9	9748.8	9744.2	9741.9	9609.0	9249.2	8593.8	7700.1	6471.7	6382.3	5316.7
15°	10234.7	10303.4	10330.9	10445.5	10456.9	10216.3	9652.6	8625.9	7202.8	7069.8	5738.4
17.5°	10560.1	10594.4	10722.8	10917.6	11075.7	11032.2	10530.3	9483.0	7949.8	7727.6	6176.1
20°	10871.7	10931.3	11029.9	11295.7	11575.3	11703.6	11350.7	10360.7	8690.1	8548.0	6659.6
22.5°	11520.3	11605.1	11639.5	11774.7	12013.0	12239.9	12079.5	11201.7	9501.3	9308.8	7173.0
25°	12618.0	12707.4	12611.1	12579.0	12657.0	12769.3	12734.9	11994.7	10266.7	9991.7	7658.8
27.5°	14048.0	14059.5	13871.6	13692.8	13500.3	13443.0	13337.6	12698.2	10931.3	10702.2	8146.9
30°	15583.4	15528.4	15216.8	14893.6	14568.2	14247.4	13944.9	13376.5	11671.5	11408.0	8625.9
32.5°	17008.9	16979.1	16633.0	16131.2	15581.1	15278.6	14666.8	14061.8	12464.5	12210.1	9118.6
35°	18076.8	18120.3	17739.9	17192.2	16591.8	16323.7	15551.4	14781.3	13284.9	13007.6	9654.9
37.5°	18835.3	18812.4	18475.5	18001.2	17474.1	17240.3	16584.9	15567.4	14167.2	13901.3	10241.5
40°	19105.8	19092.0	18842.2	18496.2	18161.6	18079.1	17666.6	16415.3	15177.8	14866.1	10947.4
42.5°	18933.9	18963.7	18798.7	18704.7	18642.8	18702.4	18741.4	17526.8	16280.1	15993.6	11712.8
45°	18406.8	18390.7	18367.8	18521.4	18869.7	19261.6	19804.7	18576.4	17478.7	17249.5	12739.5
47.5°	17464.9	17579.5	17636.8	18060.7	18821.6	19749.7	21028.5	19983.5	19218.0	19018.7	14304.7
50°	16147.2	16238.9	16578.0	17332.0	18466.4	19933.1	22224.7	22284.3	22119.3	21745.8	16005.1
52.5°	14089.3	14231.3	14930.3	16312.2	17737.6	19857.4	22948.9	24257.5	24475.2	24195.6	17680.3
55°	11786.1	11985.5	12723.4	14536.1	16733.9	19444.9	23448.5	25401.0	26269.6	26010.6	19293.7
57.5°	9531.1	9741.9	10500.5	12255.9	14983.0	18532.8	23776.2	26675.2	28712.5	28375.6	21301.2
60°	7143.2	7363.2	8014.0	9822.1	12489.7	16749.9	23553.9	27779.8	31153.1	31008.8	23311.0
62.5°	4608.6	4851.5	5417.5	6914.0	9599.9	14313.8	22364.5	28389.4	33266.1	33091.9	24777.7
65°	2807.3	2834.8	3146.5	4292.3	6570.3	11082.6	19644.3	27580.4	34379.8	34327.1	25224.5
67.5°	1815.0	1858.6	2000.6	2571.3	3939.4	7697.8	15707.2	24910.6	33729.0	33710.6	24301.0
70°	1533.1	1546.9	1611.1	1734.8	2289.4	4668.2	11029.9	20654.9	31256.3	31256.3	22080.4
72.5°	1370.4	1388.8	1411.7	1450.6	1634.0	2644.6	6581.7	16078.4	26986.8	27165.6	18794.1
75°	1244.4	1239.8	1253.6	1260.4	1393.3	1727.9	3403.1	11891.5	20877.2	20519.7	13610.3
77.5°	1065.6	1072.5	1065.6	1095.4	1230.6	1315.4	1727.9	7979.6	12652.4	12189.5	6831.5
80°	875.4	886.9	898.3	916.7	1051.9	999.2	1038.1	3636.9	4679.6	4581.1	2110.6
82.5°	657.7	673.8	692.1	735.6	827.3	660.0	655.4	1553.8	1689.0	1546.9	776.9
85°	265.8	314.0	474.4	517.9	520.2	362.1	403.3	648.5	689.8	673.8	304.8
87.5°	61.9	73.3	153.5	231.5	213.1	135.2	149.0	210.8	240.6	222.3	103.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3925.7	3925.7	3925.7	3925.7	3925.7	3925.7	3925.7	3925.7	3925.7	3925.7	3925.7
2.5°	4003.6	3923.4	3785.9	3680.4	3604.8	3538.4	3497.1	3471.9	3462.7	3460.4	3462.7
5°	4138.8	3996.7	3779.0	3641.5	3565.9	3522.3	3497.1	3494.8	3497.1	3499.4	3492.5
7.5°	4324.4	4120.4	3836.3	3707.9	3650.6	3618.6	3607.1	3602.5	3604.8	3602.5	3602.5
10°	4571.9	4292.3	3948.6	3815.7	3767.5	3730.9	3712.5	3701.1	3691.9	3682.7	3678.1
12.5°	4844.6	4482.5	4070.0	3941.7	3872.9	3815.7	3774.4	3744.6	3724.0	3703.4	3698.8
15°	5149.4	4684.2	4205.2	4026.5	3927.9	3843.2	3772.1	3724.0	3687.3	3657.5	3655.2
17.5°	5440.5	4874.4	4296.9	4065.4	3921.1	3801.9	3707.9	3641.5	3595.6	3556.7	3552.1
20°	5752.1	5055.5	4338.2	4040.2	3852.3	3707.9	3584.2	3504.0	3451.3	3407.7	3400.9
22.5°	6066.1	5209.0	4333.6	3960.0	3733.2	3563.6	3432.9	3348.1	3286.3	3242.7	3226.7
25°	6366.3	5332.7	4276.3	3831.7	3568.1	3391.7	3258.8	3180.9	3125.9	3073.1	3073.1
27.5°	6636.7	5406.1	4168.6	3675.9	3398.6	3212.9	3107.5	3036.5	2986.1	2951.7	2931.1
30°	6902.5	5440.5	4021.9	3478.8	3219.8	3061.7	2976.9	2935.6	2889.8	2850.9	2846.3
32.5°	7140.9	5433.6	3838.6	3286.3	3050.2	2937.9	2903.6	2871.5	2823.4	2768.4	2754.6
35°	7372.3	5387.7	3620.9	3075.4	2908.1	2864.6	2873.8	2827.9	2740.9	2672.1	2660.6
37.5°	7624.4	5305.2	3382.5	2903.6	2789.0	2830.2	2853.1	2752.3	2610.2	2502.5	2477.3
40°	7915.5	5211.3	3135.0	2731.7	2695.0	2798.1	2798.1	2612.5	2417.7	2351.3	2332.9
42.5°	8256.9	5133.4	2928.8	2587.3	2617.1	2720.2	2708.8	2426.9	2346.7	2312.3	2303.1
45°	8797.8	5105.9	2715.6	2461.3	2552.9	2628.6	2534.6	2362.7	2316.9	2289.4	2280.2
47.5°	9652.6	5138.0	2527.7	2367.3	2479.6	2536.9	2339.8	2319.2	2287.1	2248.1	2243.6
50°	10445.5	5108.2	2394.8	2314.6	2415.4	2426.9	2259.6	2266.5	2248.1	2204.6	2195.4
52.5°	11094.0	5014.2	2310.0	2287.1	2360.4	2234.4	2184.0	2209.2	2202.3	2147.3	2138.1
55°	11806.7	4956.9	2268.8	2287.1	2323.8	2067.1	2112.9	2149.6	2140.4	2101.5	2099.2
57.5°	12670.7	4968.4	2239.0	2294.0	2287.1	1982.3	2041.9	2085.4	2083.1	2071.7	2071.7
60°	13555.3	4973.0	2193.1	2291.7	2243.6	1915.8	1968.6	2030.4	2035.0	2041.9	2041.9
62.5°	13848.6	4773.6	2103.8	2250.4	2147.3	1851.7	1899.8	1984.6	1980.0	1998.3	2000.6
65°	13300.9	4221.3	1970.8	2156.5	2023.6	1805.8	1847.1	1925.0	1899.8	1947.9	1957.1
67.5°	12107.0	3492.5	1764.6	1986.9	1886.1	1757.7	1812.7	1842.5	1796.7	1890.6	1892.9
70°	10463.8	2727.1	1503.3	1746.3	1730.2	1707.3	1785.2	1739.4	1675.2	1789.8	1766.9
72.5°	8749.6	2083.1	1200.8	1427.7	1521.7	1631.7	1737.1	1606.5	1517.1	1551.5	1510.2
75°	6572.5	1540.0	964.8	1118.3	1267.3	1524.0	1693.6	1446.1	1308.6	1276.5	1267.3
77.5°	3350.4	1006.0	721.9	836.5	951.0	1377.3	1634.0	1258.1	1084.0	1033.5	1010.6
80°	1196.3	625.6	508.8	577.5	641.7	1184.8	1427.7	1040.4	841.0	831.9	841.0
82.5°	554.6	403.3	341.5	378.1	380.4	790.6	1088.5	776.9	639.4	971.7	820.4
85°	238.3	201.7	192.5	187.9	174.2	352.9	611.9	417.1	650.8	291.0	268.1
87.5°	71.0	80.2	71.0	52.7	39.0	39.0	61.9	22.9	16.0	11.5	11.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)